

Chapter 1 - Development and Application of Basic Internet Resources

Basic Internet resources have laid the essential foundation for the prosperous digital economy, serving as a key powerhouse for high-quality socio-economic development. In 2024, China’s basic Internet resources developed, 5G and gigabit fibre broadband advanced orderly, the access traffic of mobile Internet grew at a faster pace, and the high-quality development of information and communication yielded remarkable results.

I. Development of Basic Internet Resources in China

As of December 2024, the number of IPv4 addresses in China was **392.39 million**, that of IPv6 addresses was **69,148 blocks/32**, and that of active IPv6 users reached **822 million**². The total number of domain names was **33.02 million**³, of which **20.82 million** ended with **.CN**. The number of Internet broadband access ports reached **1,199 million**⁴.

Table 1 Development of Basic Internet Resources by December 2024

Type	Unit	Number by December 2024
IPv4	1	392,386,560
IPv6	Block/32	69,148
Active IPv6 user ⁵	100 million	8.22
Domain name	1	33,019,905
Including .CN domain name	1	20,823,037
Internet broadband access port ⁶	100 million	11.99

² The number of active IPv6 users was updated by November 2024.

³ Generic Top-Level Domains (gTLD) and New Generic Top-Level Domains (New gTLD) data are provided by China’s domain name registration organisations.CN and .中国 data refer to global registration volume.

⁴ The number of Internet broadband access ports was updated by November 2024.

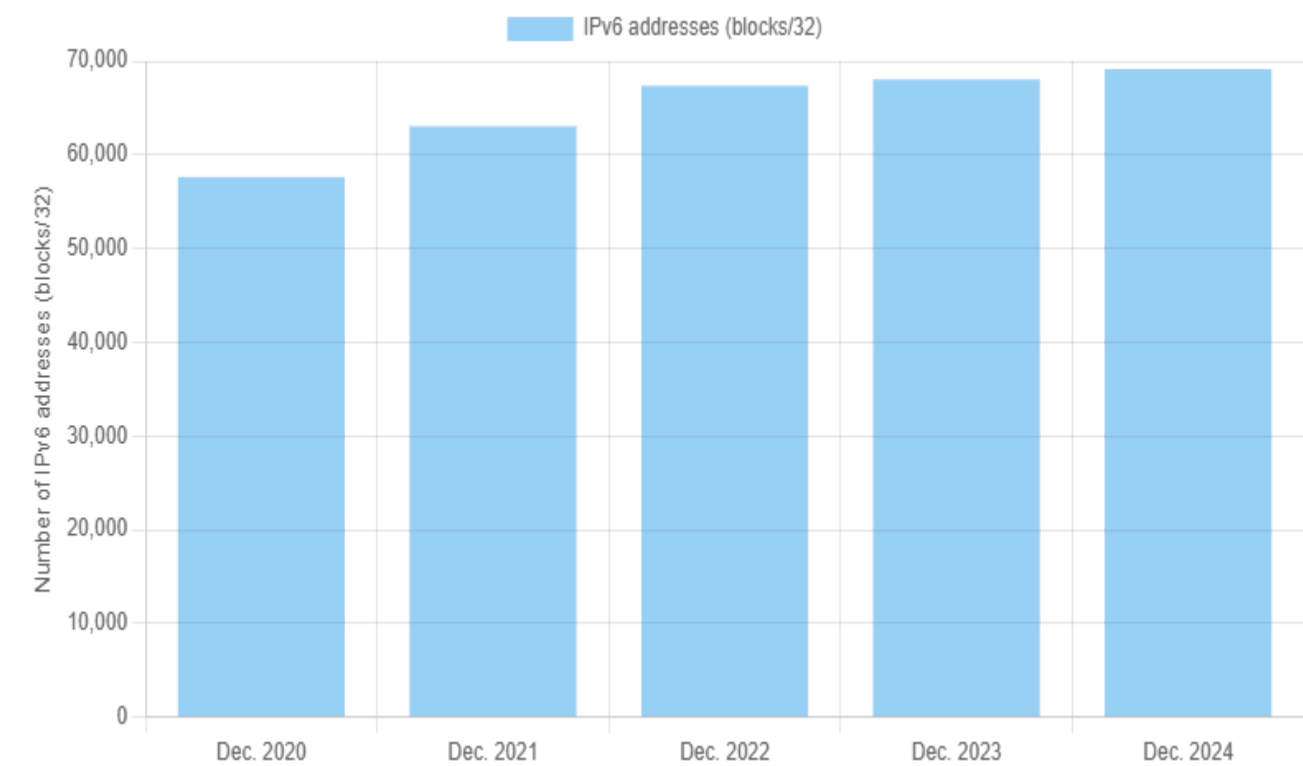
⁵ The number of active IPv6 users was updated by November 2024.

⁶ The number of Internet broadband access ports was updated by November 2024.

(I) IP Addresses used in China

Up to December 2024, the number of IPv6 addresses had amounted to **69,148 blocks/32**, up by **1.6%** over December 2023. By collecting and analyzing data from 23 major public recursive services worldwide, 14 or **60.9%** of them offered IPv6 public recursive services.

Figure 1 Number of IPv6 Addresses⁷

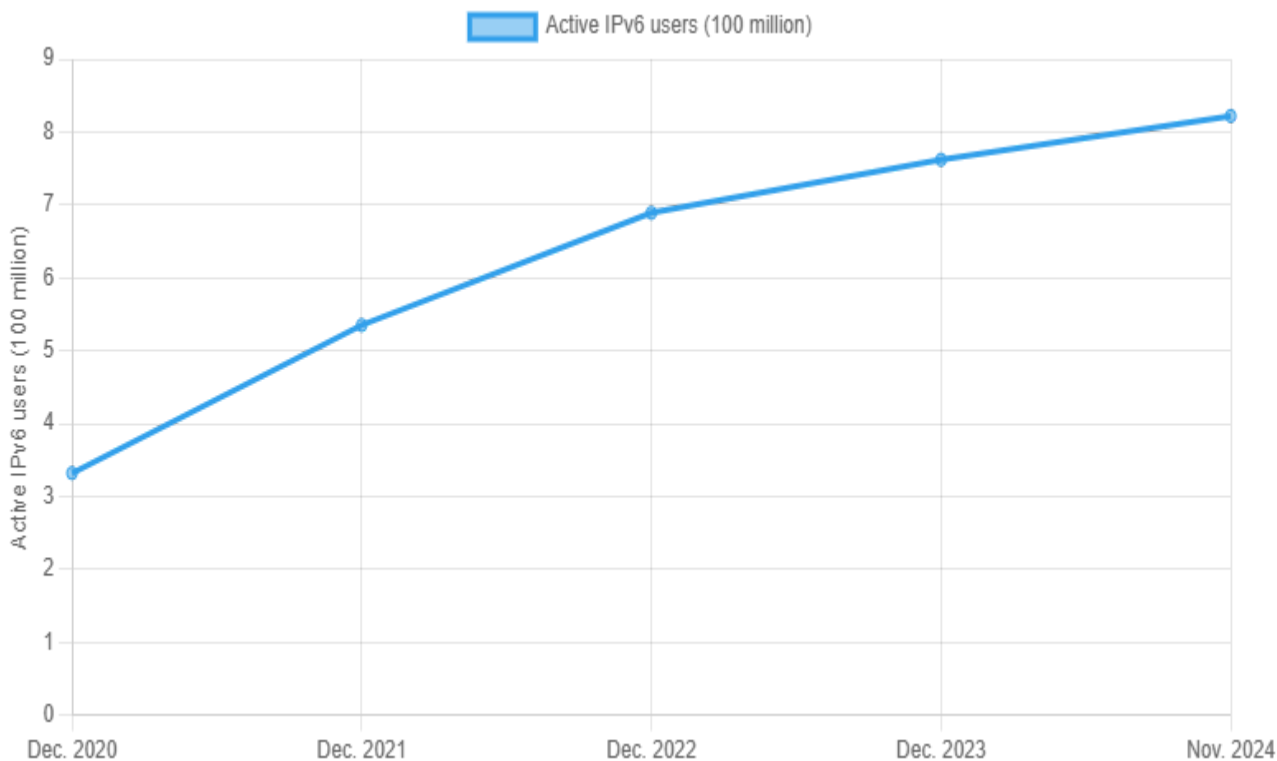


Unit: blocks/32.

Source: Statistical Survey on China’s Internet Development, CNNIC, December 2024.

As of December 2024, the number of active IPv6 users reached **822 million**.

Figure 2 Number of Active IPv6 Users



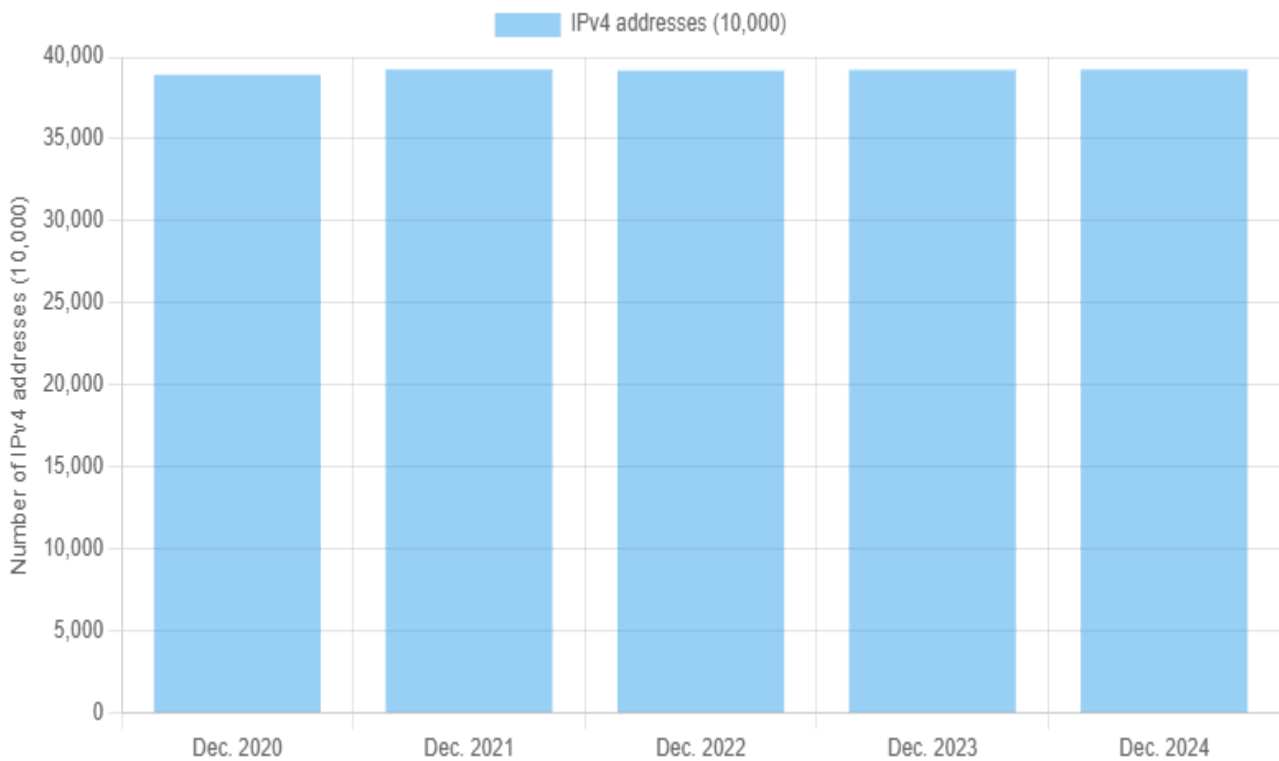
Unit: 100 million users.

Source: National IPv6 Development and Monitoring Platform, November 2024.

Up to December 2024, the number of IPv4 addresses in China had amounted to **392.39 million**.

⁷ The data cover Hong Kong, Macao and Taiwan.

Figure 3 Number of IPv4 Addresses⁸



Unit: 10,000 addresses.

Source: Statistical Survey on China’s Internet Development, CNNIC, December 2024.

⁸ The data cover Hong Kong, Macao and Taiwan.

Domain Names used in China

Up to December 2024, the number of China’s domain names totalled **33.02 million**. Specifically, there were **20.82 million** ended with **.CN**, **7.05 million** ended with **.COM**, **170,000** ended with **.中国**, and **3.64 million** New gTLD names.

Table 2 Number of Domain Names by Category in China

Type	Number
.CN	20,823,037
.COM	7,047,974
.NET	590,181
.中国	165,265
.INFO	48,497
.ORG	23,118

New gTLD	3,640,877
Others ⁹	680,956
Total	33,019,905

⁹ Including .BIZ, .CO, .TV, .CC, .ME, .HK, .PW, etc.

Table 3 Number of .CN Domain Names by Category

Type	Number
.CN ¹⁰	12,417,282
.COM.CN	3,878,437
.ADM.CN ¹¹	2,406,924
.NET.CN	1,089,050
.ORG.CN	959,219
.AC.CN	52,427
.GOV.CN	12,608
.EDU.CN	6,857
Others	233
Total	20,823,037

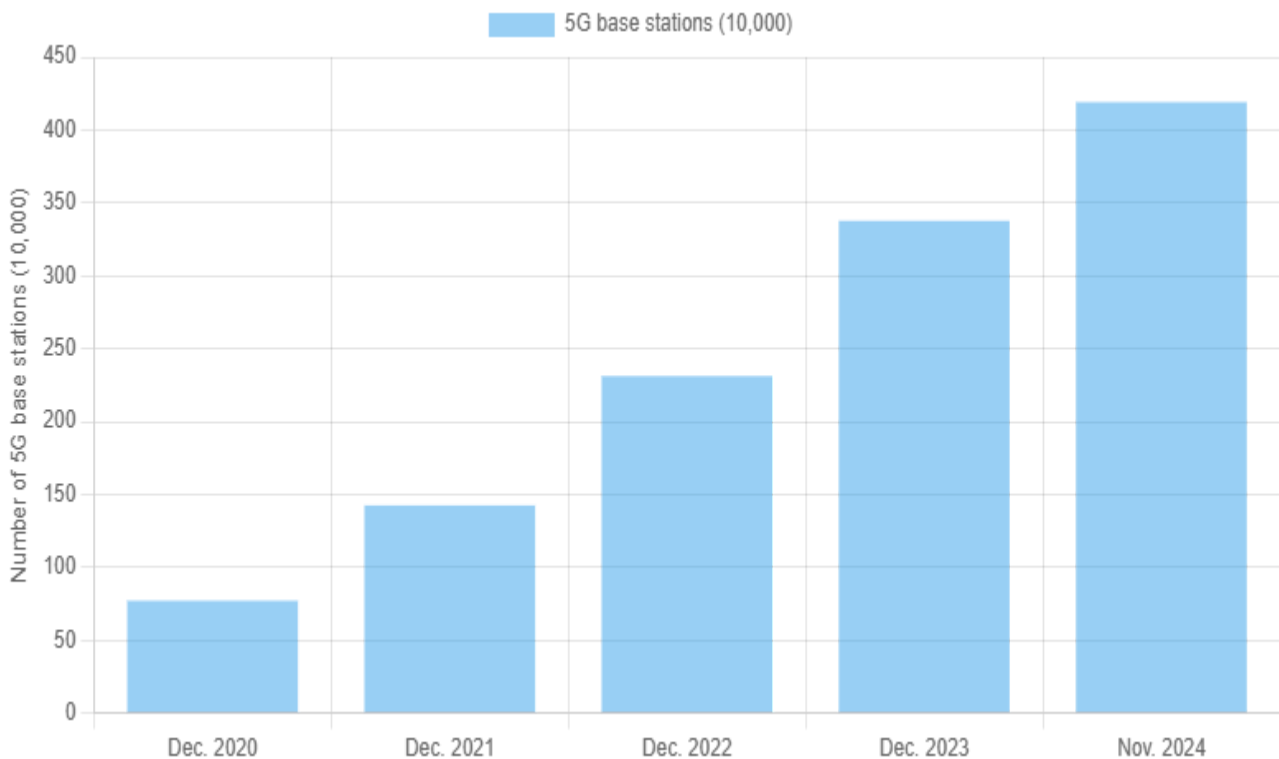
¹⁰ .CN here refers to the second-level domain names under the category of .CN.

¹¹ .ADM.CN refers to virtual secondary domain names and collectively denotes all administrative domain names (second-level domain names) under .CN.

(III) Number of 5G Base Stations in China

As of November 2024, the number of 5G base stations totalled **4.191 million**, accounting for **33.2%** of all mobile base stations, up by **4.1 percentage points** from December 2023.

Figure 4 Number of 5G Base Stations



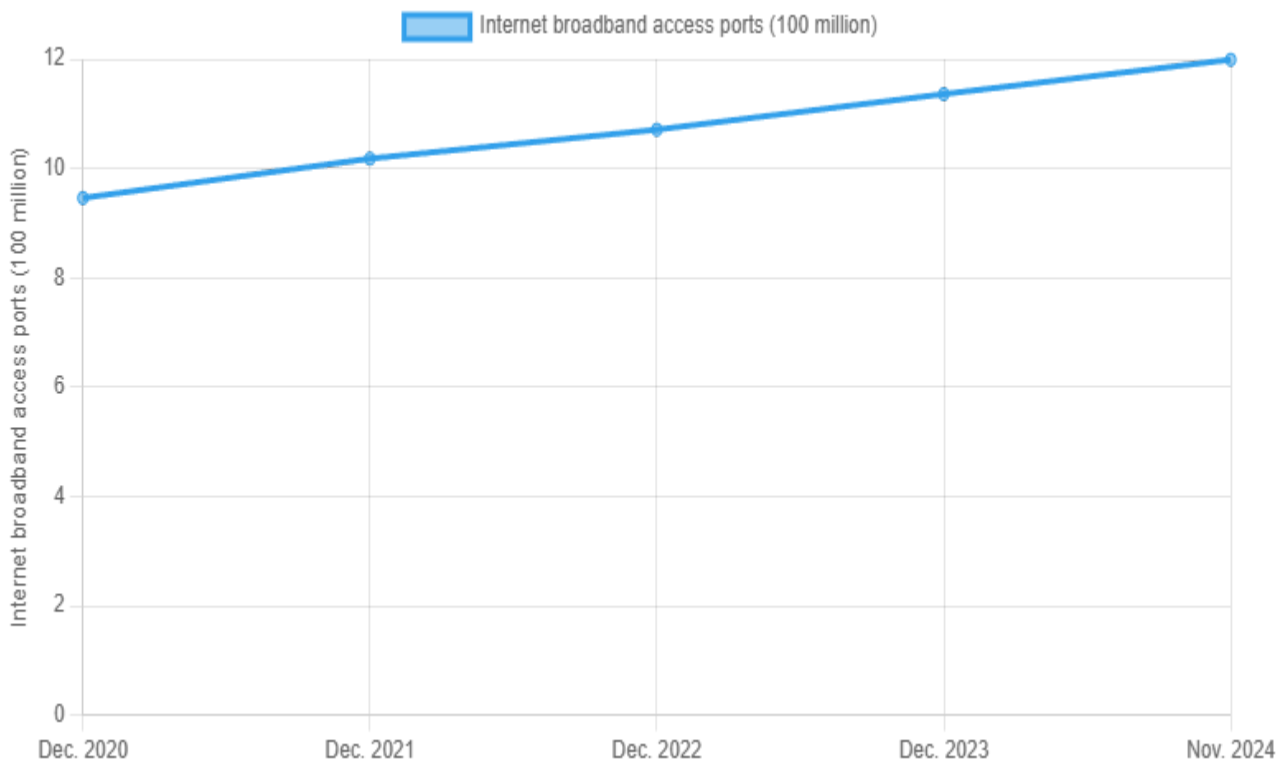
Unit: 10,000 base stations.

Source: China’s Ministry of Industry and Information Technology, November 2024.

(IV) Number of Internet Broadband Access Ports in China

As of November 2024, the number of Internet broadband access ports nationwide reached **1,199 million**, a net increase of **63.60 million** from December 2023. Specifically, the number of FTTH/O ports reached **1.16 billion**, a net increase of **63.49 million** over December 2023 and the proportion amounted to **96.5%** of Internet broadband access ports. The number of 10G PON ports with gigabit network service capability reached **27.92 million**, a net increase of **4.896 million** over December 2023.

Figure 5 Number of Internet Broadband Access Ports



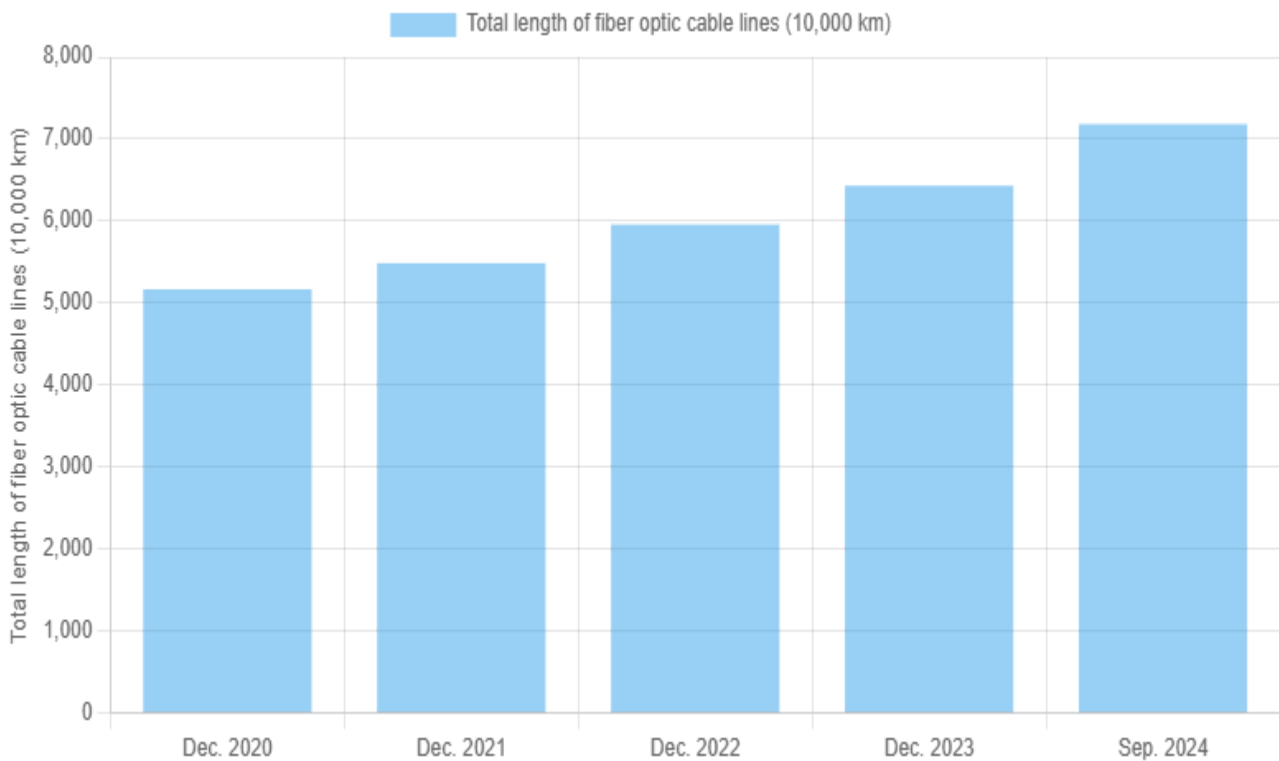
Unit: 100 million ports.

Source: China’s Ministry of Industry and Information Technology, November 2024.

(V) Total Length of Fiber Optic Cable Lines in China

As of September 2024, the total length of fiber optic cable lines totaled **71.83 million km**, a net increase of **7.514 million km** from December 2023.

Figure 6 Total Length of Fiber Optic Cable Lines



Unit: 10,000 km.

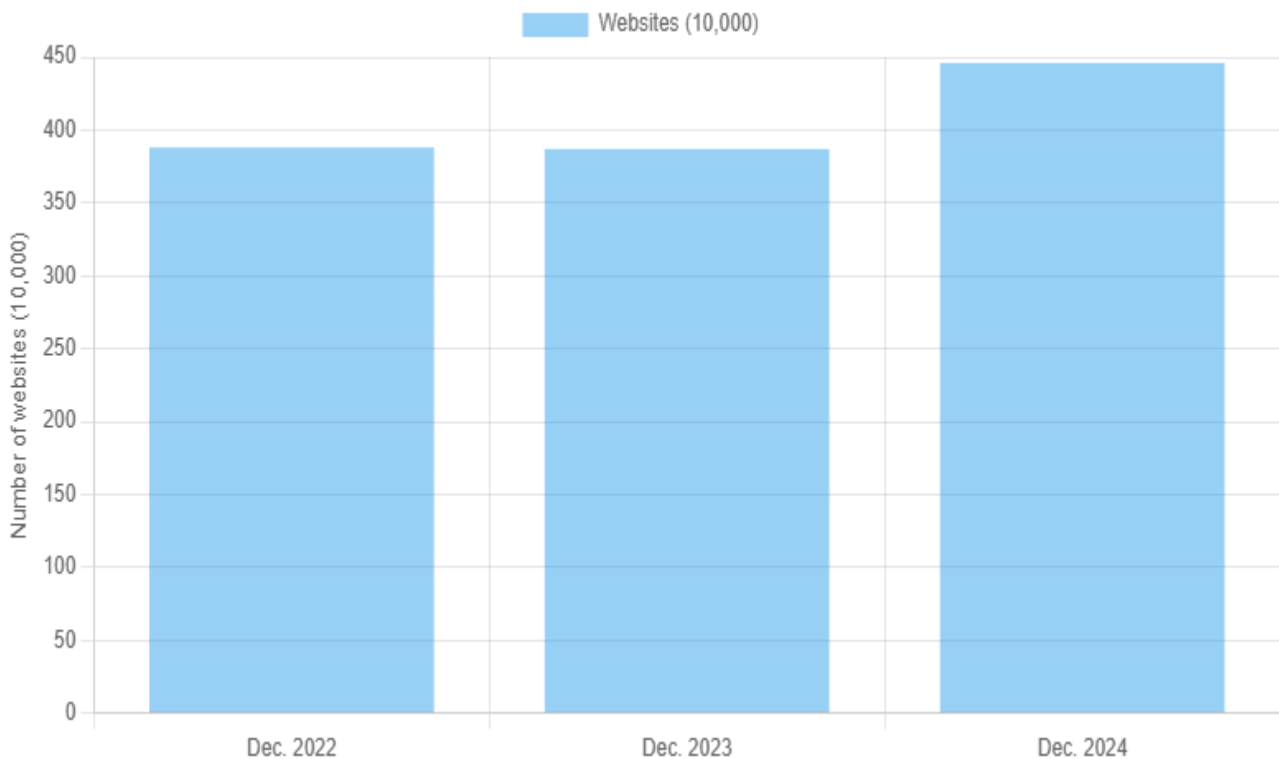
Source: China’s Ministry of Industry and Information Technology, September 2024.

II. Application of Basic Internet Resources in China

(I) Websites

As of December 2024, there were **4.46 million** websites in China.

Figure 7 Number of Websites in China



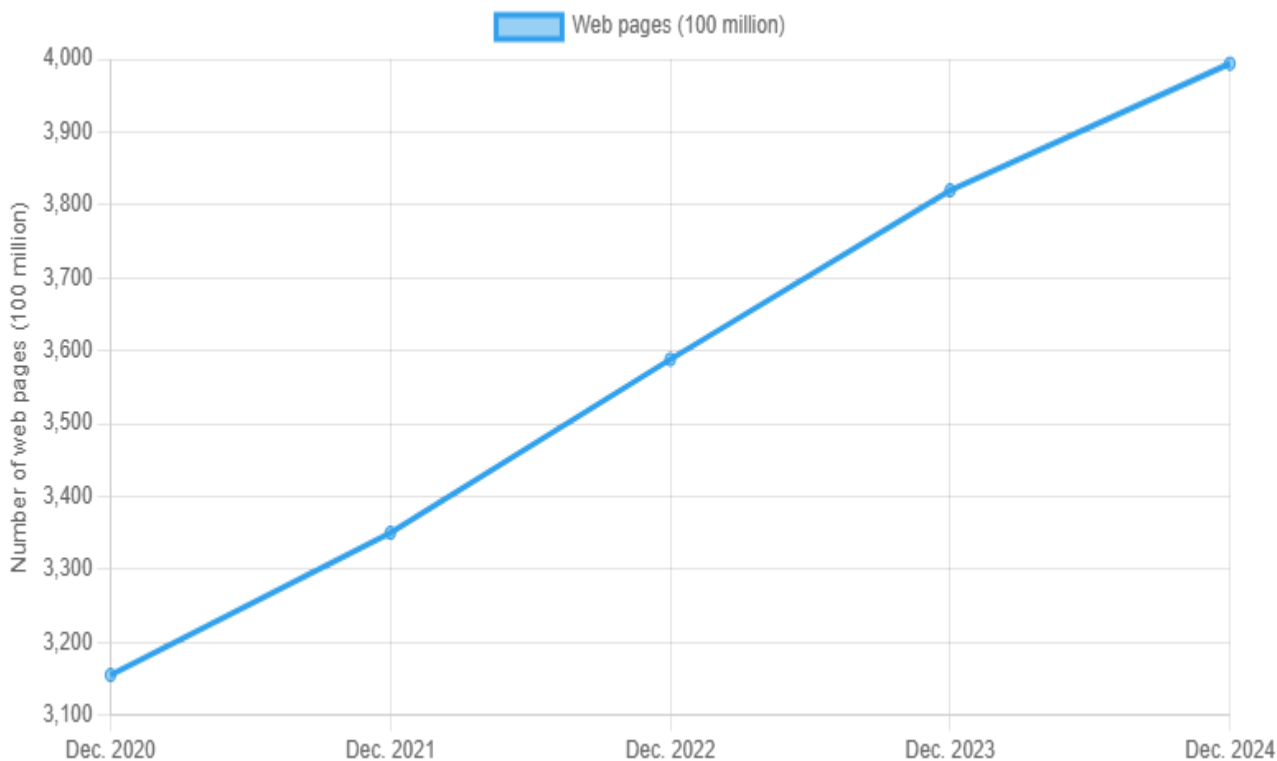
Unit: 10,000 websites.

Source: The ICP / IP address / domain name record management system of China's Ministry of Industry and Information Technology, December 2024.

(II) Web Pages in China

As of December 2024, there were **399.4 billion** web pages in China, up by **4.5%** from December 2023. There were **275.3 billion** static web pages¹² and **124.0 billion** dynamic web pages¹³, accounting for **68.9%** and **31.1%** of the total, respectively.

Figure 8 Number of Web Pages In china



Unit: 100 million pages.

Source: Baidu, December 2024.

Table 4 Number of Web Pages from Dec. 2023 to Dec. 2024 In China

Type	Unit	December 2024	Percentage Increase from December 2023
Total web pages	Page	399,364,628,784	4.5
Static web pages	Page	275,321,724,899	5.2
Proportion in total web pages	%	68.9	--
Dynamic web pages	Page	124,042,903,885	3.2
Proportion in total web pages	%	31.1	--
Web page size (total number of bytes)	KB	34,822,667,008,589	7.7
Average number of bytes per page	KB	87	3.0

Source: Baidu.

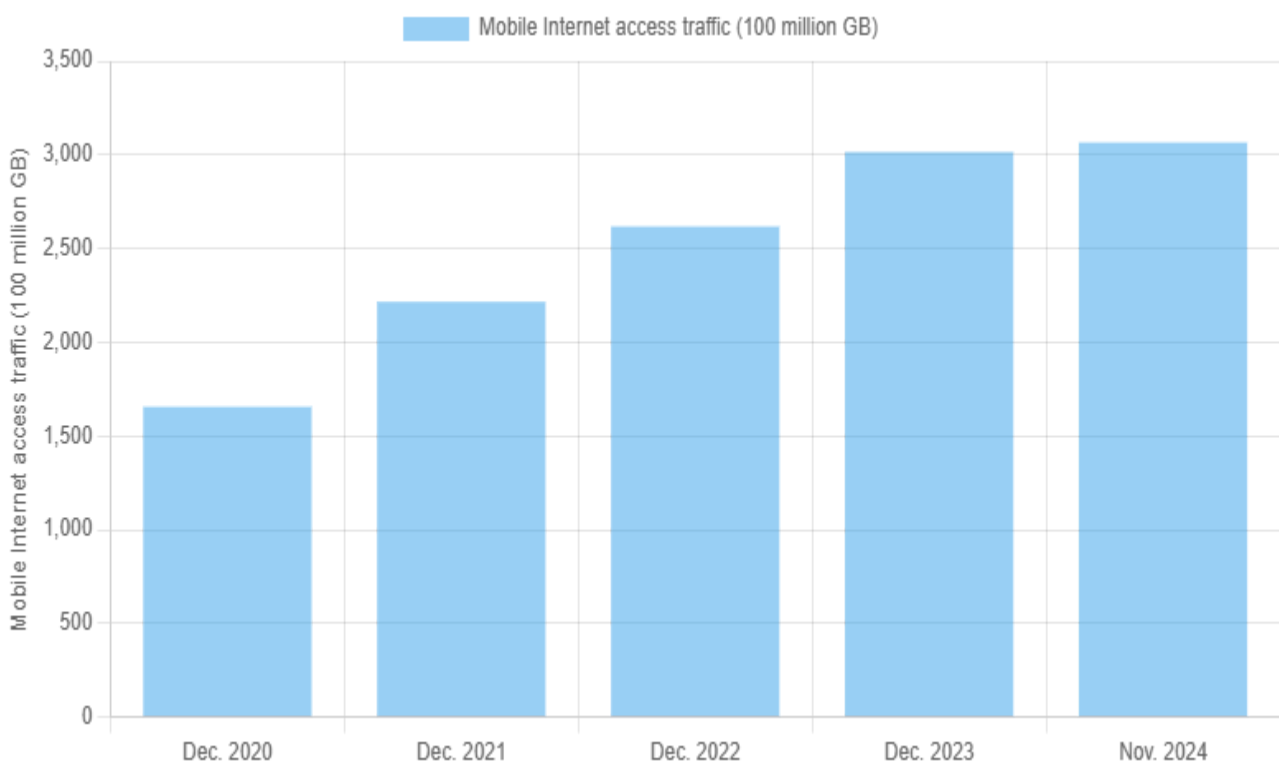
¹² A static web page means a web page in the standard HTML format, whose extension is either .htm or .html, and which contains text, images, audio, flash files, client scripts, ActiveX controls and .JAVA programs.

¹³ A dynamic web page means a web page that displays different content with the time, environment or result of database operation, although its code is the same as that used for a static page. This is achieved by a combination of basic HTML language specification with advanced programming languages such as Java, VB and VC, database programming and other techniques.

(II) Mobile Internet Access Traffic in China

By November 2024, China's mobile Internet traffic¹⁴ totaled **306.6 billion GB**, up by **12%** year-on-year.

Figure 9 Mobile Internet Access Traffic In China



Unit: 100 million GB.
Source: China's Ministry of Industry and Information Technology, November 2024.

¹⁴ Since February 2024, the number of 5G mobile phone users and mobile Internet users as well as the 5G mobile Internet access traffic, provided by China Radio and Television Network Group Co., Ltd. (China Broadnet), have been included in the industry data.

-  Test your website from China
-  Download "Chapter 1" paper (PDF)

The 55th Statistical Report on China's Internet Development - Chapter 1

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